

CLAIMS (tentative)

1. dc-dc converter using flyback-controlled off-time and a timing circuit to control on-time.
 2. stabilized converter for LED flashlight using flyback controlled off-time
 3. Vcc compensation using flyback control and RC, where on-time is set by R to Vcc, which charges a <timing cap> having a set initial charge
 4. Vcc compensation comprising flyback control of off-time, on-time set by a capacitor charged to an initial charge, and timing current to charge <timing cap> where timing current is made to increase with Vcc.
 5. 4., where timing current is from a current source that is proportional to Vcc.
 6. 4., where timing current is constant over the timing cycle, producing a linear ramp on <timing cap>
 7. 4., where timing current is exponential over the timing cycle, producing an exponential voltage across <timing cap>.
- o flyback to ensure inductor reset, with on-time compensation to correct over input Vcc variations.
 - o boost converter whose off-time = on-time * $V_{cc}/(V_{out}-V_{cc})$
 - o tOFF set by flyback time of power storage inductor.
 - o switchable output powers